

Patent [19]

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[54] AIR PURIFICATION APPARATUS

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[57] ABSTRACT

PURPOSE: To efficiently deodorize, by equipping a light to radiate ultraviolet against a photocatalyst, putting a dust collecting part in the windward of the photocatalyst, and installing a ventilator.

CONSTITUTION: By operation of a ventilator 8, powder dust- and unpleasant odor-contg. air is sucked from a grill 9, relatively large dust is captured in a prefilter 2 and fine dust and smoke are captured in a fiber filter 3, and then unpleasant odor compds. with low b.p. such as NH₃, amines, H₂S, mercaptans, aldehydes, etc., are decomposed by a photocatalyst layer 5 (Pt-carrying TiO₂) in the opposite of an ultraviolet radiating light 6 and blown from a blowing grill 11.

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